

February 24, 2006

Mr. Cliff Ives County of Sonoma Department of Health Services Environmental Health Division 3273 Airway Dr., Ste. D Santa Rosa, CA 95403-2097

RE: 4<sup>th</sup> QUARTER 2005 MONITORING AND SAMPLING REPORT 74 BENSON LANE, COTATI, CALIFORNIA EBA Project No. 02-944 (31)

Dear Mr. Ives:

Please find enclosed the Fourth Quarter 2005 Monitoring and Sampling Report prepared by EBA Engineering (EBA) for the site located at 74 Benson lane, Cotati, California (Figure 1). Quarterly sampling events are being conducted at the request of the County of Sonoma Department of Health Services—Environmental Health Division (CSDHS-EHD).

#### QUARTERLY MONITORING AND SAMPLING

On November 10, 2005, EBA personnel collected groundwater samples from monitoring wells MW-1 through MW-4, MW-6, and the domestic well. EBA also measured depth to water (DTW) in the monitoring wells, only, during this same sampling event. The corresponding groundwater flow direction was calculated to be approximately South 53° West with a hydraulic gradient of 0.25 foot/foot. Groundwater elevations are illustrated on the Potentiometric Surface Map (Figure 2) and summarized in Table 1.

Prior to sampling, the wells were purged of standing water to aid in collection of a sample that is representative of formation water. Field data sheets detailing the monitoring of groundwater pH, electrical conductivity and temperature during well purging are attached. Each monitoring well was purged until the water quality parameters had stabilized and a minimum of three well volumes was removed. Purge water is stored on-site in properly labeled 55-gallon DOT 17H drums pending disposal.

Groundwater samples were collected from each monitoring well with a single sample disposable bailer fitted with a bottom-emptying device to minimize water degassing. Groundwater samples collected from the monitoring wells were transferred into properly labeled, laboratory supplied sterile sample containers. The groundwater samples were logged on a Chain-of-Custody form and placed under refrigerated conditions pending transport to Alpha Analytical Laboratories, Inc., a California State-certified laboratory, for chemical testing. The Certified Analytical Report and Chain-of-Custody Record are included with this report.

#### DOMESTIC WELL

A groundwater sample was collected from the domestic well located on the northwestern portion of the property. The groundwater sample was collected from a faucet inside a pump house adjacent to the house. Prior to collecting the sample, the faucet was allowed to run for approximately 15 minutes.

#### **GROUNDWATER ANALYTICAL**

All groundwater samples collected were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and Total Petroleum Hydrocarbons as diesel (TPH-d) using Environmental Protection Agency (EPA) Method 8260GRO and 8015DRO, respectively. Benzene, toluene, ethylbenzene, and total xylenes (BTEX); and the fuel oxygenate Methyl tert-Butyl Ether (MtBE) were analyzed using EPA Method 8260B. The Certified Analytical Report and corresponding Chain-of-Custody Record are attached with this report.

#### ANALYTICAL RESULTS

The groundwater sample collected from the domestic well did not contain concentrations of petroleum hydrocarbons or their constituents at or above the Practical Quantition Limit (PQLs). The only reported concentration of contaminants were found in monitoring wells MW-1, and MW-4. MW-1 contained concentrations of TPH-g at 3,200 micrograms per liter ( $\mu$ g/L), as well as, lesser concentrations of TPH-d, benzene, ethylbenzene, and total xylenes. MW-4 contained a low concentration of toluene at 0.30  $\mu$ g/L. All other constituents analyzed were below the respective PQLs. Cumulative groundwater analytical results are listed in Table 2 provided herein.



If you should have any questions regarding this report, please contact EBA at (707) 544-0784.

Sincerely,

EBA ENGINEERING

Benjamin L. Melosh

Staff Geologist

Supervised by

Duane Butler, P.E., R.E.A.

C.E. #13357

Attach: Figure 1: Vicinity Map

Figure 2: Potentiometric Groundwater Map – November 18 Table 1: Monitoring Well Survey

Table 1: Monitoring Well Survey and Water Level Data

Table 2: Groundwater Analytical Results – TPH-g, TPH-d, BTEX, MtBE

Table 3: Groundwater Sample Analytical Results - Lead Scavengers and

Dissolved Lead

Field Data Sheets

Certified Analytical Report and Chain-of-Custody Record

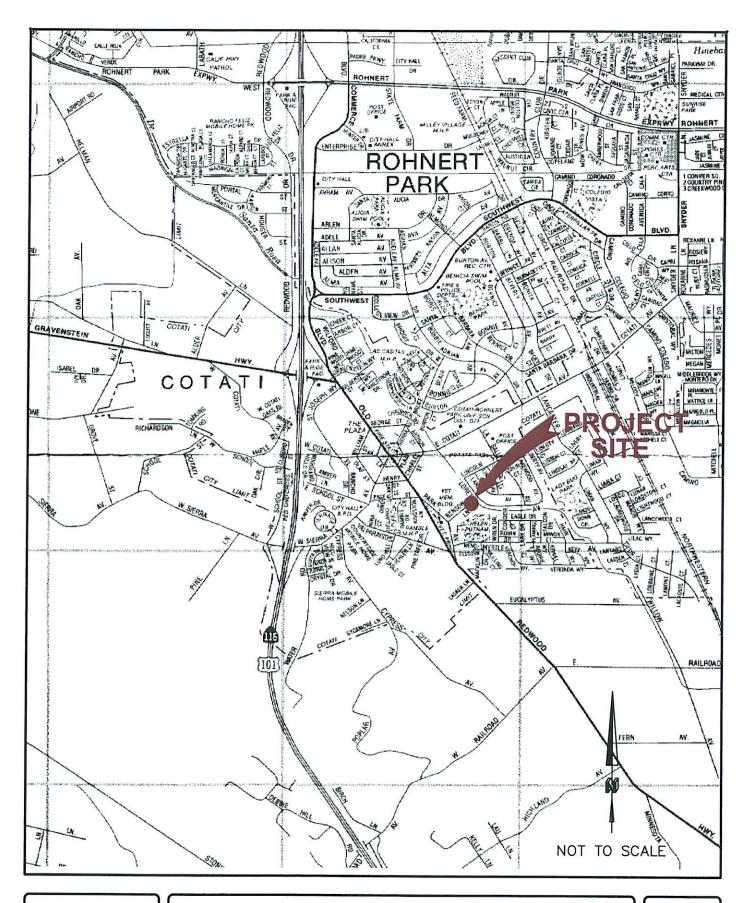
cc: Ms. Debra Bel, Attorney at Law, P.O. Box 194, Cotati, CA 94931

Mr. Frank Archini, 1697 Broadway, Burlingame, CA 94010

Matthew Earnshaw, P.G.

Project Geologist

Reviewed by



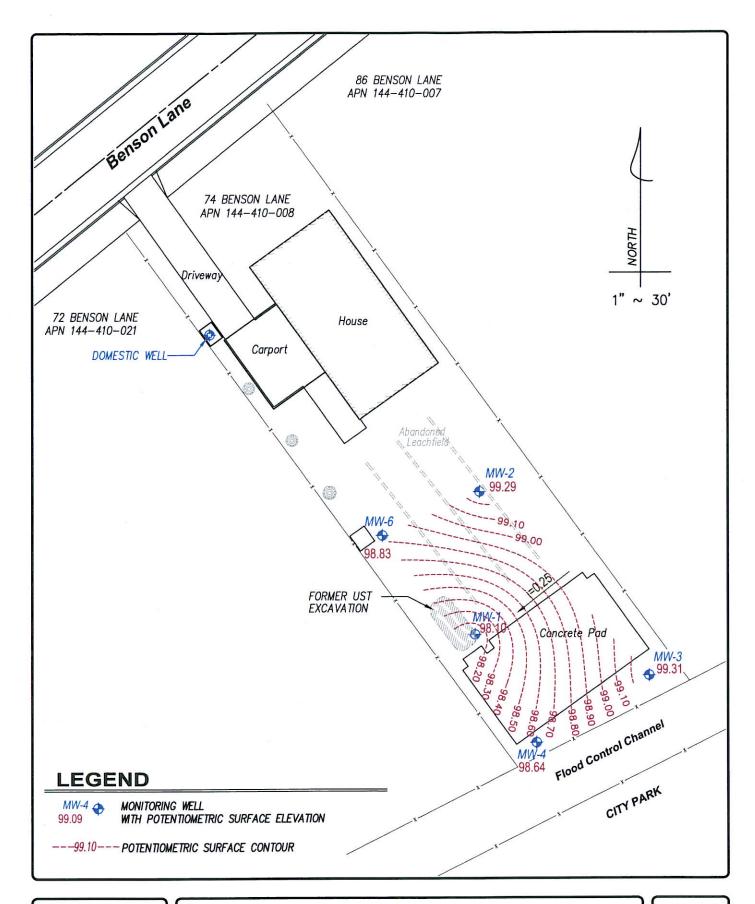


### **VICINITY MAP**

TURNER ESTATE 74 BENSON LANE COTATI, CALIFORNIA FIGURE

1

02-944





#### POTENTIOMETRIC SURFACE MAP NOVEMBER 10, 2005

TURNER ESTATE 74 BENSON LANE COTATI, CALIFORNIA **FIGURE** 

2

02-944 SEPT 2005

#### TABLE 1 MONITORING WELL SURVEY AND WATER LEVEL DATA 74 Benson Lane, Cotati, California EBA Project No. 02-944

Well ID	Date	Well Depth (feet)	Screened Interval (feet)	TOC Elevation above MSL (feet)	Depth to Groundwater TOC (feet)	Groundwater Elevation above MSL (feet)
MW-1	10/8/2003 1/15/2004 4/29/2004 7/30/2004 10/21/2004 1/21/2005 4/5/2005 8/18/2005 11/10/2005	30	10-30	108.07	18.78 7.10 8.88 13.11 13.65 6.16 5.03 8.80 9.97	89.29 100.97 99.19 94.96 94.42 101.91 103.04 99.27 98.10
MW-2	8/18/2005 11/10/2005	18	5-20	108.09	8.61 8.80	99.48 99.29
MW-3	8/18/2005 11/10/2005	20	5-18	107.78	8.49 8.47	99.29 99.31
MW-4	8/18/2005 11/10/2005	20	5-20	108.26	9.17 9.62	99.09 98.64
MW-6	8/18/2005 11/10/2005	20	5-20	108.24	9.06 9.41	99.18 98.83

TOC = Top of Casing. MSL= Mean Sea Level.

# TABLE 2 GROUNDWATER ANALYTICAL RESULTS TPH-g, TPH-d, BTEX and MtBE 74 Benson Lane, Cotati, California

EBA Project No. 02-944

Sample ID	Date	TPH-g (μg/L)	TPH-d (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MtBE (μg/L)
	10/8/2003	NA	2300	28	6.0	380	680	<5.0
	1/15/2004	1900	<62	2.1	<1.5	18	71	<2.5
	4/29/2004	6000	490	<30	<30	68	120	<50
	7/30/2004	6300	590	<50	<50	200	240	<50
MW-1	10/21/2004	6200	740	3.2	0.6	19	100	< 0.50
101 00 -1	1/21/2005	1900	480	< 0.60	< 0.60	23	42	<1.0
	4/5/2005	390	<50	< 0.30	< 0.30	4.7	7.6	< 0.50
	8/18/2005	5,400	240	0.67	0.55	41	37	< 0.50
	11/10/2005	3,200	140	6.4	<6.0	66	56	<10
	8/18/2005	<50	<50	< 0.30	<0.30	<0.50	<0.50	<0.50
MW-2	11/10/2005	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	8/18/2005	<50	<50	< 0.30	< 0.30	< 0.50	<0.50	<0.50
MW-3	11/10/2005	<50	<50	<0.30	<0.30	<0.50	<0.50	<0.50
	8/18/2005	<50	<50	< 0.30	< 0.30	< 0.50	<0.50	< 0.50
MW-4	11/10/2005	<50	<50	<0.30	0.30	<0.50	<0.50	<0.50
	8/18/2005	<50	<50	< 0.30	<0.30	<0.50	<0.50	<0.50
MW-6	11/10/2005	<50	<50	<0.30	< 0.30	<0.50	<0.50	< 0.50
	10/8/2003	NA	75	< 0.30	< 0.30	< 0.50	< 0.50	<1.0
	10/16/2003	< 50	<54	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	1/15/2004	< 50	<50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	4/29/2004	< 50	89	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	5/18/2004	< 50	< 50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
DW	7/30/2004	<50	<50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
J 10 10	10/21/2004	< 50	<50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	1/21/2005	<50	<50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	4/5/2005	< 50	<50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	8/18/2005	< 50	< 50	< 0.30	< 0.30	< 0.50	< 0.50	< 0.50
	11/10/2005	<50	<50	< 0.30	< 0.30	< 0.50	<0.50	< 0.50

TPH-g = Total Petroleum Hydrocarbons as Gasoline.

TPH-d = Total Petroleum Hydrocarbons as Diesel.

MtBE = Methyl tert-Butyl Ether.

 $\mu$ g/L = Micrograms per Liter.

NA = Not Analyzed.

## TABLE 3 GROUNDWATER SAMPLE ANALYTICAL RESULTS

#### Lead Scavengers & Dissolved Lead 74 Benson Lane, Cotati, California EBA Project No. 02-944

Sample I.D.	Date	1,2-Dichloro- ethane µg/L	Clorobenzene μg/L	1,3-Dichloro- benzene µg/L	1,4-Dichloro- benzene μg/L	1,2-Dichloro- benzene µg/L	1,2-Dibromo- ethane (EDB) µg/L	Dissolved Lead mg/L
MW-1	10/8/2004	NA	NA	NA	NA	NA	NA	NA
	1/15/2004	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.05
	8/18/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05
	11/10/2005	<10	<10	<10	<10	<10	<10	NA
MW-2	8/18/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05
	11/10/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
MW-3	8/18/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05
	11/10/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
MW-4	8/18/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05
	11/10/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
MW-6	8/18/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05
	11/10/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA
DW	10/8/2003	NA	NA	NA	NA	NA	NA	NA
	10/16/2003	NA	NA	NA	NA	NA	NA	NA
	1/15/2004	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<0.05
	8/18/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05
	11/10/2005	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA

μg/l = micrograms per liter. NA= Not Analyzed.

Project No.	02-944	<del> </del>		Well No:	MW-1		
Project Location:	74 Benson Ln., C	otati, CA		Well Depth from TO			
Global I.D.	T0609734491			Well Diameter:	2"		
Date:	11/10/2005	<del> </del>		Product Level from T	COC: Not Present		
Time:	1348	·		Water Level from TO	OC: 9.97'		
Recorded by:	Ben Melosh			Screened Interval:	10'-30'		
Purge Duration:	15 minutes	_		Well Elevation (TOC	'): 108.07' above MSL		
			w	EATHER			
Wind:	0-5 mph			Precip. in last 5 days:	None		
eren skipt om tit manne.	are spatter to the same	VOLUM	1E OF WATER TO B	E REMOVED BEFO	RE SAMPLING		
( <u>30'</u> -	<u>9.97'</u>	) x ( 0.08333 ) <sup>2</sup> x	3.14 x 7.48 =	3.26	gallons in one well volume		
{ Well Depth - Water		radius (ft) }		5.20	gantino in over wear vacant		
9.78	gallons in 3	well volumes		10.0	gallons removed		
and the second second		William State of the State of t	CAL	IBRATION			
Parameter	Time Calibration Before Sampling			Time	After Sampling		
pH:							
EC:			-				
<u>,</u>	<del></del>	A THE RESERVE	FIELD M	EASUREMENTS			
Time	рН	EC (μS/cm)	Temp <sup>o</sup> C	Gallons Removed	Appearance		
1349	6.82	434	18.7	0.5	Clear; HC odor		
1356	6.65	436	18.6	5.0	Cloudy grey; HC odor		
1404	6.92	519	17.1	10.0	Cloudy grey; HC odor		
-							
Water Level After Pu	rging:	<u>16.92</u>	ft. (TOC)	80% of Original Water	er Level: <u>13.98</u> ft. (TOC)		
Water Level Before S		9.45	ft. (TOC)	<u> </u>			
APPEARANCE OF		Slightly cloudy			Time: 1450		
Bailer: Aqua Bailer S	ingle Samole	Type: Disposable Pol	iyethylene	GPM: Not Applicable	The state of the s		
Submersible:		Туре:		GPM:			
Dedicated:		Type:		GPM:			
DECONTAMINATION	ON METHOD: TS		le bailers				
SAMPLE ANALYSI					-		
		oratories Inc., Ukiah,	Ca.				
			<del> </del>				

			<del></del>	<del></del>	- **	<del></del>		
Project No.	02-944 ————————			Well No:		MW-2		
Project Location:	74 Benson Ln., C	otati, CA		Well Depth from TO	OC:	20'		
Global I.D.	T0609734491			Well Diameter:		2"		
Date:	11/10/2005			Product Level from 1	TOC:	Not Present		
Time:	1125			Water Level from TOC:		8.80'		
Recorded by:	Ben Melosh			Screened Interval:		5'-20'		
Purge Duration:	8 minutes			Well Elevation (TOC	C):	108.09' above MSL		
			W	EATHER				
Wind:	0-5 mph			Precip. in last 5 days	:	None	-	
		VOLUN	ME OF WATER TO B	E REMOVED BEFO	DRE SAMPLIN	IG.		
( <u>20'</u> -	8.80'	) x ( 0.08333 ) <sup>2</sup> x	3.14 x 7.48 =	1.83	gallons in one	well volume	- <del></del>	
{ Well Depth - Wate	r Level } { Well 1	radius (ft) }						
<u>5.49</u>	gallons in 3	well volumes		5.5	gallons remove	ed		
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	CAI	IBRATION	· · · · · · · · · · · · · · · · · · ·			
Parameter	Time	Calibration	Before Sampling	Time	After Sampling	3	<del>-</del> · <u>-</u>	
pH:							****	
EC:							<del></del>	
	······································		FIELD M	EASUREMENTS	<del></del>			
Time	рН	EC (μS/cm)	Temp <sup>o</sup> C	Gallons Removed		Appeara	nce	
1126	7.46	669	18.7	0.5	Clear	<del></del>		
1128	7.39	677	. 18.7	2.5	Cloudy Brown			
1132	7.43	683	18.1	5.5	Cloudy Brown	Cloudy Brown		
							-	
						-		
		·				-		
Water Level After Pu	rging:	10.30	ft. (TOC)	80% of Original Wate	er Level:	11.04	ft. (TOC)	
Water Level Before S		10.30	ft. (TOC)	<u>-</u>		<u></u> :		
APPEARANCE OF		Cloudy Brown	· · · · · · · · · · · · · · · · · · ·			Time: 1135		
Bailer: Aqua Bailer S	Single Sample	Type: Disposable Pol	yethylene	GPM: Not Applicable	• • • • • • • • • • • • • • • • • • •			
Submersible:		Туре:	<u> </u>	GPM:				
Dedicated:		Туре:		GPM:				
DECONTAMINATI		SP wash and disposable	le bailers	<u> </u>		<del></del>		
SAMPLE ANALYSI	· · ·							
	<del></del>	oratories Inc., Ukiah,	Ca.					
		·			<del></del>		·	

Project No.	02-944			Well No:	MW-3			
Project Location:	74 Benson Ln., C	otati, CA		Well Depth from TO	OC: 18'			
Global I.D.	T0609734491			Well Diameter:	2"			
Date:	11/10/2005			Product Level from TOC: Not Present				
Time:	1055			Water Level from TOC: 8.47'				
Recorded by:	Ben Melosh			Screened Interval: 5'-18'				
Purge Duration:	7 minutes			Well Elevation (TOC	C): 107.78' above MSL			
			W	EATHER				
Wind:	0-5 mph			Precip. in last 5 days	: None			
	-	VOLUM	ME OF WATER TO B	E REMOVED BEFO	DRE SAMPLING			
<u> </u>	8.47'	) x ( 0.08333 ) <sup>2</sup> x	3.14 x 7.48 =	1.55	gallons in one well volume			
{ Well Depth - Water		radius (ft) }	<del>-</del>	<u> </u>				
<u>4.65</u>	4.65 gallons in 3 well volumes				gallons removed			
			CAI	LIBRATION				
Parameter	Time	Calibration	Before Sampling	Time	After Sampling			
pH:								
EC:	<u> </u>							
	<u></u>			D. 0177777				
	<u> </u>		I	EASUREMENTS	<u> </u>			
Time	рН	EC (μS/cm)	Temp °C	Gallons Removed	Appearance			
1056	7.84	571	18.3	0.5	Slightly cloudy brown			
1059	7.71	554	17.8	2.5	Cloudy brown			
1103	7.65	562	17.6	5.0	Cloudy brown			
<u> </u>								
Water Level After Pur	ging:	10.23	ft. (TOC)	80% of Original Wate	er Level: <u>10.38</u> ft. (TOC)			
Water Level Before S	ampling:	10.23	ft. (TOC)					
APPEARANCE OF S	AMPLE:	Cloudy brown			Time: 1110			
Bailer: Aqua Bailer Si	ngle Sample	Type: Disposable Pol	yethylene	GPM: Not Applicable	e			
Submersible: Type:				GPM:				
Dedicated:		Туре:	·	GPM:				
DECONTAMINATIO	ON METHOD: TS	P wash and disposabl	e bailers	<u> </u>				
SAMPLE ANALYSIS	6: Fuel Oxygenate	s, TPH-g, TPH-d.	<u> </u>					
LABORATORY: AI	pha Analytical Lab	oratories Inc., Ukiah,	Ca.	_	<u> </u>			
	<del></del>							

				<del></del>	· <del></del>		
Project No.	02-944	<del></del>		Well No:		1W-4 ·	<del></del> -
Project Location:	74 Benson Ln., C	otati, CA		Well Depth from TO	C: 20	0'	
Global I.D.	T0609734491			Well Diameter:			
Date:	11/10/2005			Product Level from 7	TOC: N	lot Present	
Time:	1040			Water Level from TO	OC: 9.	.62'	
Recorded by:	Ben Melosh			Screened Interval:	5'	'-20'	
Purge Duration:	7 minutes			Well Elevation (TOC	C): 10	08.26' above MSL	
			w	EATHER			
Wind:	0-5 mph			Precip. in last 5 days	: N	lone	
	**	VOLUN	E OF WATER TO B	E REMOVED BEFO	ORE SAMPLING	}	
( <u>20'</u> -	9.62'	) x ( 0.08333 ) <sup>2</sup> x	3.14 x 7.48 =	<u>1.69</u>	gallons in one w	ell volume	
{ Well Depth - Water	er Level } { Well s	radius (ft) }				-	
<u>5.07</u>	gallons in 3	well volumes		<u>5.5</u>	gallons removed		
			CAL	IBRATION			
Parameter	Time	Calibration	Before Sampling	Time	After Sampling	•	
pH:							
EC:							
			FIELD M	EASUREMENTS		· · · · · · · · · · · · · · · · · · ·	
Time	рН	EC (μS/cm)	Temp °C	Gallons Removed		Appeara	ance
1040	7.23	462	17.9	0.5	Slightly cloudy b	orown	
1043	7.19	481	17.9	3.0	Cloudy brown		
1047	7.23	472	17.9	5.5	Cloudy brown		
							<u>.                                      </u>
Water Level After P	urging:	12,43	ft. (TOC)	80% of Original Wat	er Level:	11,70	ft. (TOC)
Water Level Before		9.56	ft. (TOC)			3-11-2	
APPEARANCE OF		Clear	(100)	-	T	ime: 1410	
Bailer: Aqua Bailer	Single Sample	Type: Disposable Po	lvethylene	GPM: Not Applicable	e		-
Submersible:		Type:	.,	GPM: Not Applicable			
Dedicated:		Туре:		GPM:			
	ION METHOD: T	SP wash and disposab	le bailers				_
SAMPLE ANALYS					<del></del>		-
		poratories Inc., Ukiah,	Ca.				
			<del></del>			<del> </del>	

Project Location 74 Berson Ln., Cotati, CA Well Depth from TOC: 20    Clobal LD	Project No.	02-944	<u> </u>		Well No:	MW-6		
Date	Project Location:	74 Benson Ln., C	otati, CA		Well Depth from TO	C: 20'		
Time:   1020	Global I.D.	T0609734491			Well Diameter:	2"		
Screened Interval:	Date:	11/10/2005			Product Level from T	TOC: Not Present		
Parge   Duration:   S minutes   Well Elevation (TOC):   108,24' above MSL.	Time:	1020			Water Level from TC	OC: 9.41'		
WEATHER   Precip. in last 5 days	Recorded by:	Ben Melosh			Screened Interval:	5'-20'		
	Purge Duration:	8 minutes			Well Elevation (TOC	(): 108.24' above MSL		
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING				w	EATHER			
VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING	Wind:	0-5 mph			Precip. in last 5 days:	None		
Well Depth - Water Level   [ Well radius (ft) ]	TO THE READING DOLLAR ON	<u>taning in community of the rooms</u>	VOLUN	1E OF WATER TO B	E REMOVED BEFO	ORE SAMPLING		
Well Depth - Water Level   Well radius (ft)	( 20' -	9.41'	$) \times (0.08333)^2 \times$	3.14 x 7.48 =	1.76	gallons in one well volume		
Parameter	{ Well Depth - Water		radius (ft) )					
Parameter         Time         Calibration         Before Sampling         Time         After Sampling           pH:	<u>5.28</u>	gallons in 3	well volumes		<u>5.5</u>	gallons removed		
PH		uni un e di la u		CAL	IBRATION	a ya <sup>a ma</sup> lawan inday <mark>1996-ka ili 1996-ka na kata ka wasan ili kata wa kata wa kata ka kata ka kata ka malawa ka ka</mark>		
FIELD MEASUREMENTS   FIELD	Parameter	Time	Time Calibration Before Sampling			After Sampling		
Time	pH:							
Time	EC:							
1024	ACTION OF THE	A CONTRACTOR	The second secon	FIELD M		Environmental and the second s		
1027	Time	рН	EC (µS/cm)	Temp °C	Gallons Removed	Appearance		
1032 7.46 811 18.1 5.5 Cloudy brown  Water Level After Purging: 13.75 ft. (TOC) 80% of Original Water Level: 11.53 ft. (TOC)  Water Level Before Sampling: 9.39 ft. (TOC)  APPEARANCE OF SAMPLE: Slightly cloudy Time: 1430  Bailer: Aqua Bailer Single Sample Type: Disposable Polyethylene GPM: Not Applicable  Submersible: Type: GPM:  Dedicated: Type: GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	1024	7.51	670	18.1	0.5	Slightly cloudy brown		
Water Level After Purging:  13.75  ft. (FOC)  80% of Original Water Level:  11.53  ft. (TOC)  Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time:  1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	1027	7.48	767	18.4	3	Cloudy brown		
Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	1032	7.46	811	18.1	5.5	Cloudy brown		
Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.		_						
Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.								
Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.				<u> </u>				
Water Level Before Sampling:  9.39  ft. (TOC)  APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	and the second of the	a transaction to the		The second second				
APPEARANCE OF SAMPLE:  Slightly cloudy  Time: 1430  Bailer: Aqua Bailer Single Sample  Type: Disposable Polyethylene  GPM: Not Applicable  Submersible:  Type:  GPM:  Dedicated:  Type:  GPM:  GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	Water Level After Pu	ırging:	<u>13.75</u>	ft. (TOC)	80% of Original Wat	er Level: <u>11.53</u> ft. (TOC)		
Bailer: Aqua Bailer Single Sample Type: Disposable Polyethylene GPM: Not Applicable  Submersible: Type: GPM:  Dedicated: Type: GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	Water Level Before S	Sampling:	<u>9.39</u>	ft. (TOC)				
Submersible; Type: GPM:  Dedicated: Type: GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	APPEARANCE OF	SAMPLE:	Slightly cloudy		<u></u>	Time: 1430		
Dedicated: Type: GPM:  DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	Bailer: Aqua Bailer S	Single Sample	Type: Disposable Po	lyethylene	GPM: Not Applicable	e		
DECONTAMINATION METHOD: TSP wash and disposable bailers  SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	Submersible:		Туре:		<del></del>			
SAMPLE ANALYSIS: Fuel Oxygenates, TPH-g, TPH-d.	Dedicated:	<del>-</del>	Туре:	_ · · -				
	DECONTAMINATI	ON METHOD: T	SP wash and disposab	le bailers				
LABORATORY: Alpha Analytical Laboratories Inc., Ukiah, Ca.	SAMPLE ANALYSI	IS: Fuel Oxygenate	es, TPH-g, TPH-d.					
	LABORATORY: A	Jpha Analytical Lal	boratories Inc., Ukiah,	Ca.		3000		



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### 23 November 2005

EBA Wastechnologies

Attn: David Noren

825 Sonoma Ave., Suite C

Santa Rosa, CA 95404

RE: 74 Benson Lane

Work Order: A511362

Enclosed are the results of analyses for samples received by the laboratory on 11/11/05 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nena M. Burgess For Sheri L. Speaks

Project Manager



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 1 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

EBA

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DW	A511362-01	Water	11/10/05 10:00	11/11/05 13:00
MW-1	A511362-02	Water	11/10/05 14:50	11/11/05 13:00
MW-2	A511362-03	Water	11/10/05 11:35	11/11/05 13:00
MW-3	A511362-04	Water	11/10/05 11:10	11/11/05 13:00
MW-4	A511362-05	Water	11/10/05 14:10	11/11/05 13:00
MW-6	A511362-06	Water	11/10/05 14:30	11/11/05 13:00



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 2 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59 Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

		Alpha A	<b>Analytical</b>	Laborato	ries, Inc.				
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT		PQL	NOTE
W (A511362-01)			Sample Ty	pe: Water	San	npled: 11/10/05 1	0:00		
TPH by EPA/LUFT GC/GCMS Metho	ods								
TPH as Diesel	8015DRO	AK52103	11/18/05	11/23/05	1	ND ug/l		50	
TPH as Gasoline	8260GRO	AK52114	11/18/05	11/19/05	n	ND "		50	
Surrogate: Tetratetracontane	8015DRO	AK52103	11/18/05	11/23/05		46.8 %	20-152		
Surrogate: Toluene-d8	8260GRO	AK52114	11/18/05	11/19/05		112%	79-141		
Volatile Organic Compounds by EPA	Method 8260B								
Benzene	EPA 8260B	AK52119	11/18/05	11/19/05	1	ND ug/l		0.30	
Toluene	II .	n	π	*	ţŧ.	ND "		0.30	
Ethylbenzene	n	n	**	57	H	ND "		0.50	
Xylenes (total)	n n	)†	**	17	Ħ	ND "		0.50	
Methyl tert-butyl ether	п	n	11	19	58	ND"		0.50	
Di-isopropyl ether	п	H	Ħ	*	n	ND "		0.50	
Ethyl tert-butyl ether	U	If	77	19	16	ND "		0.50	
Tert-amyl methyl ether	II .	14	11	*	P	ND "		0.50	
Tert-butyl alcohol	U	19	Ħ	14	10	ND "		10	
1,2-Dichloroethane	п	19	"	19	17	ND "		0.50	
Chlorobenzene	n		**	10	17	ND "		0.50	
1,3-Dichlorobenzene	п	11	Ħ	If		ND "		0.50	
1,4-Dichlorobenzene	В	19	**	17	P	ND "		0.50	
1,2-Dichlorobenzene	n n	17	*		U	ND "		0.50	
1,2-Dibromoethane (EDB)	н	19	**	17	n	ND "		0.50	
Surrogate: Bromofluorobenzene	n	**	n	"		100 %	78-138		
Surrogate: Dibromofluoromethane	n	"	**	"		112 %	71-136		
Surrogate: Toluene-d8	"	"	"	"		112 %	88-139		

#### MW-1 (A511362-02)

#### TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AK52103	11/18/05	11/23/05	0.9302	140 ug/i	
TPH as Gasoline	8260GRO	AK52114	11/18/05	11/19/05	20	3200 "	
Surrogate: Tetratetracontane	8015DRO	AK52103	11/18/05	11/23/05		64.8 %	20-152
Surrogate: Toluene-d8	8260GRO	AK52114	11/18/05	11/19/05		116 %	79-141

Sample Type: Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sampled: 11/10/05 14:50

D-07

47

1000



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 3 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Alpha Analytical Laboratories, Inc. BATCH PREPARED ANALYZED DILUTION RESULT **PQL** NOTE METHOD Sampled: 11/10/05 14:50 Sample Type: Water MW-1 (A511362-02) R-06 Volatile Organic Compounds by EPA Method 8260B 11/18/05 11/19/05 20 6.4 ug/l 6.0 EPA 8260B AK52119 Benzene ND " 6.0 Toluene Ethylbenzene 66 " 10 56 " 10 Xylenes (total) ND" 10 Methyl tert-butyl ether ND" 10 Di-isopropyl ether ND" 10 Ethyl tert-butyl ether 10 ND" Tert-amyl methyl ether 200 ND " Tert-butyl alcohol ND" 10 1,2-Dichloroethane ND" 10 Chlorobenzene ND " 10 1.3-Dichlorobenzene ND" 10 1,4-Dichlorobenzene 1,2-Dichlorobenzene ND " 10 ND " 10 1,2-Dibromoethane (EDB) \*\* ,, 105 % 78-138 Surrogate: Bromofluorobenzene \*\* 102 % 71-136 Surrogate: Dibromofluoromethane 116% 88-139 Surrogate: Toluene-d8 MW-2 (A511362-03) Sample Type: Water Sampled: 11/10/05 11:35 TPH by EPA/LUFT GC/GCMS Methods ND ug/l 50 8015DRO AK52103 11/18/05 11/23/05 1 TPH as Diesel ND " 50 11/18/05 11/19/05 TPH as Gasoline 8260GRO AK52114 11/18/05 11/23/05 59.6 % 20-152 Surrogate: Tetratetracontane 8015DRO AK52103 Surrogate: Toluene-d8 8260GRO AK52114 11/18/05 11/19/05 108 % 79-141

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks Project Manager

11/23/2005



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 4 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Receipt Date/Time

Client Code

Client PO/Reference

U	rd	er	Ν	ur	nt	er
Á	51	13	36	2		

11/11/2005 13:00

**EBA** 

		Alpha A	nalytical	Laborator	ries, Inc.			
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
MW-2 (A511362-03)		Sample Type: Water Sampled: 11/10/05 11:35						
Volatile Organic Compounds by EPA	Method 8260B							
Benzene	EPA 8260B	AK52119	11/18/05	11/19/05	l	ND ug/l	0.30	
Toluene	н	11	19	u	10	ND "	0.30	
Ethylbenzene	n	n	n	**	"	ND "	0.50	
Xylenes (total)	11	п	II .	**	11	ND "	0.50	
Methyl tert-butyl ether	11	u	u	#	II .	ND "	0.50	
Di-isopropyl ether	11	Ņ	Ħ	It	II .	ND "	0.50	
Ethyl tert-butyl ether	It.	78	**	H	**	ND "	0.50	
Tert-amyl methyl ether	n	**	*	U	ţ1	ND "	0.50	
Tert-butyl alcohol	н	**	14	Ħ	**	ND "	10	
1,2-Dichloroethane	0	n	19	"	II.	ND "	0.50	
Chlorobenzene	н	IJ	n	11	II	ND "	0.50	
1,3-Dichlorobenzene	*1	ū	U	14	U	ND "	0.50	
1,4-Dichlorobenzene	#	n	a	IF.	u	ND "	0.50	
1,2-Dichlorobenzene	19	H	**	11	**	ND "	0.50	
1,2-Dibromoethane (EDB)	P	11	39	п	10	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	n		96.8 % 78-138		
Surrogate: Dibromofluoromethane	"	"	"	"		110 % 71-136		
Surrogate: Toluene-d8	"	"	"	n		108 % 88-139		
MW-3 (A511362-04)			Sample Ty	pe: Water		Sampled: 11/10/05 11:10		
TPH by EPA/LUFT GC/GCMS Meth	ods							
TPH as Diesel	8015DRO	AK52103	11/18/05	11/23/05	1	ND ug/l	50	
TPH as Gasoline	8260GRO	AK52114	11/18/05	11/19/05	11	ND "	50	
Surrogate: Tetratetracontane	8015DRO	AK52103	11/18/05	11/23/05		51.1 % 20-152		
Surrogate: Toluene-d8	8260GRO	AK52114	11/18/05	11/19/05		114% 79-141		



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 5 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Alpha Analytical Laboratories, Inc.												
	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE				
WW-3 (A511362-04)	;	Sample Ty	pe: Water		Sampled: 11/10/05 11:10							
Volatile Organic Compounds by EPA	Method 8260B											
Benzene	EPA 8260B	AK52119	11/18/05	11/19/05	]	ND ug/l	0.30					
Toluene	10	11	Ħ	II .	*1	ND "	0.30					
Ethylbenzene	P	H	**	н	**	ND "	0.50					
Xylenes (total)	**	n	**	Ħ	P	ND "	0.50					
Methyl tert-butyl ether	и	11	19	ii	13	ND "	0.50					
Di-isopropyl ether	n n	11	17	*	н	ND "	0.50					
Ethyl tert-butyl ether	u	н	н	15	ıı	ND "	0.50					
Tert-amyl methyl ether	II .	tt	II .	P	II	ND "	0.50					
Tert-butyl alcohol	н	**	II .	n	**	ND "	10					
1,2-Dichloroethane	"	**	н	н	н	ND "	0.50					
Chlorobenzene	Ħ	**	н	II .	**	ND "	0.50					
1,3-Dichlorobenzene	#	**	**	u	11	ND "	0.50					
1,4-Dichlorobenzene	"	H	**	Ħ	17	ND "	0.50					
1,2-Dichlorobenzene	**	Ü	**	**	n	ND "	0.50					
1,2-Dibromoethane (EDB)	10	н	n	n	n	ND "	0.50					
Surrogate: Bromofluorobenzene	"	"	"	"		101 % 78-13	8					
Surrogate: Dibromofluoromethane	"	"	"	"		114% 71-13	6					
Surrogate: Toluene-d8	"	•	"	"		114 % 88-13	9					
MW-4 (A511362-05)			Sample Ty	pe: Water		Sampled: 11/10/05 14:10						
TPH by EPA/LUFT GC/GCMS Meth	ods											
TPH as Diesel	8015DRO	AK52103	11/18/05	11/23/05	1	ND ug/l	50					
TPH as Gasoline	8260GRO	AK52114	11/18/05	11/19/05	11	ND "	50					
Surrogate: Tetratetracontane	8015DRO	AK52103	11/18/05	11/23/05		59.1% 20-15	2					
Surrogate: Toluene-d8	8260GRO	AK52114	11/18/05	11/19/05		108 % 79-14	1					

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 6 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Alpha Analytical Laboratories, Inc.												
	METHOD		PREPARED	RESULT	PQL	NOTE						
MW-4 (A511362-05)		Sample Type: Water			Sampled: 11/10/05 14:10	<del></del> -						
Volatile Organic Compounds by EPA	Method 8260B											
Benzene	EPA 8260B	AK52119	11/18/05	11/19/05	1	ND ug/l	0.30					
Toluene	Ħ	Ħ	U	n	11	0.30 "	0.30					
Ethylbenzene	tt	**	н	19	*1	ND "	0.50					
Xylenes (total)	Ħ	\$1	n	11	"	ND "	0.50					
Methyl tert-butyl ether	R	**	n	п	tt	ND "	0.50					
Di-isopropyl ether	**	11	**	Ħ	17	ND "	0.50					
Ethyl tert-butyl ether	**	17	**	п	**	ND "	0.50					
Tert-amyl methyl ether	**	19	**	71	J#	ND "	0.50					
Tert-butyl alcohol	19	n	IF	Ħ	n	ND "	10					
1,2-Dichloroethane	19	11	*	18	17	ND "	0.50					
Chlorobenzene	н	n	н	Ħ	U	ND "	0.50					
1,3-Dichlorobenzene	н	Ħ	и	19	н	ND "	0.50					
1,4-Dichlorobenzene	n n	n	II .	19	**	ND "	0.50					
1,2-Dichlorobenzene	н	ti	ti	h	11	ND "	0.50					
1,2-Dibromoethane (EDB)	n	Ħ	ti	u	16	ND "	0.50					
Surrogate: Bromofluorobenzene	"	"	"	"		99.2 % 78-138						
Surrogate: Dibromofluoromethane	"	"	"	"		107 % 71-136						
Surrogate: Toluene-d8	n	n	н	"		108 % 88-139						
MW-6 (A511362-06)		i	Sample Ty	pe: Water		Sampled: 11/10/05 14:30						
TPH by EPA/LUFT GC/GCMS Meth	ods											
TPH as Diesel	8015DRO	AK52103	11/18/05	11/23/05	I	ND ug/l	50					
TPH as Gasoline	8260GRO	AK52114	11/18/05	11/19/05	11	ND "	50					
Surrogate: Tetratetracontane	8015DRO	AK52103	11/18/05	11/23/05		44.7 % 20-152	····					
Surrogate: Toluene-d8	8260GRO	AK52114	11/18/05	11/19/05		112 % 79-141						

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Nena M. Burgess For Sheri L. Speaks Project Manager

11/23/2005



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 7 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404

Report Date: 11/23/05 13:59

Attn: David Noren

Project No: 02-944 Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Alpha Analytical Laboratories, Inc. BATCH PREPARED ANALYZED DILUTION RESULT PQL NOTE METHOD Sampled: 11/10/05 14:30 Sample Type: Water MW-6 (A511362-06) Volatile Organic Compounds by EPA Method 8260B EPA 8260B AK52119 11/18/05 11/19/05 1 ND ug/l 0.30 Benzene ND" 0.30 Toluene ND" 0.50 Ethylbenzene ND" 0.50 Xylenes (total) ND" 0.50 Methyl tert-butyl ether ND" 0.50 Di-isopropyl ether ND " 0.50 Ethyl tert-butyl ether ND" 0.50 Tert-amyl methyl ether ND" 10 Tert-butyl alcohol 1.2-Dichloroethane ND" 0.50 ND" 0.50 Chlorobenzene ND " 0.50 1,3-Dichlorobenzene ND" 0.50 1,4-Dichlorobenzene ND" 0.50 1,2-Dichlorobenzene ND" 0.50 1.2-Dibromoethane (EDB) \*\* " /1 101% 78-138 Surrogate: Bromofluorobenzene Surrogate: Dibromofluoromethane 112% 71-136 112% 88-139 Surrogate: Toluene-d8



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 8 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

#### TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag			
Batch AK52103 - EPA 3510B Wat	ter												
Blank (AK52103-BLK1)				Prepared:	11/18/05	Analyzed	: 11/22/05						
TPH as Diesel	ND	50	ug/l										
Surrogate: Tetratetracontane	68.5		п	162		42.3	20-152						
LCS (AK52103-BS1)				Prepared:	11/18/05	Analyzed	: 11/22/05						
TPH as Diesel	1800	50	ug/l	2000		90.0	52-136						
Surrogate: Tetratetracontane	88.4		"	162		54.6	20-152						
LCS Dup (AK52103-BSD1)				Prepared:	11/18/05	Analyzed	: 11/22/05						
TPH as Diesel	1730	50	ug/l	2000	-	86.5	52-136	3.97	25				
Surrogate: Tetratetracontane	107		H	162		66.0	20-152			_			
Batch AK52114 - VOAs in Water	GCMS												
Blank (AK52114-BLK1)				Prepared & Analyzed: 11/18/05									
TPH as Gasoline	ND	50	ug/l										
			ug i										
Surrogate: Toluene-d8	27.5		# # # # # # # # # # # # # # # # # # #	25.0		110	79-141						
-	27.5	<del></del>			11/18/05		79-141 : 11/19/05						
LCS (AK52114-BS1)	27.5	50			11/18/05								
LCS (AK52114-BS1)TPH as Gasoline			н	Prepared:	11/18/05	Analyzed	: 11/19/05						
LCS (AK52114-BS1) TPH as Gasoline Surrogate: Toluene-d8	184		ug/l	Prepared: 200 25.0		92.0 108	75-126			<u> </u>			
LCS (AK52114-BS1) TPH as Gasoline Surrogate: Toluene-d8 LCS Dup (AK52114-BSD1)	184		ug/l	Prepared: 200 25.0		92.0 108	75-126 79-141	3.31	20				
LCS (AK52114-BS1) TPH as Gasoline Surrogate: Toluene-d8 LCS Dup (AK52114-BSD1) TPH as Gasoline	184 27.1	50	ug/l	Prepared: 200 25.0 Prepared:		Analyzed 92.0 108 Analyzed	1: 11/19/05 75-126 79-141 1: 11/19/05	3.31	20				
Surrogate: Toluene-d8  LCS (AK52114-BS1)  TPH as Gasoline  Surrogate: Toluene-d8  LCS Dup (AK52114-BSD1)  TPH as Gasoline  Surrogate: Toluene-d8  Matrix Spike (AK52114-MS1)	184 27.1 178 28.2	50	ug/l "	200 25.0 Prepared 200 25.0	11/18/05	92.0 108 Analyzed 89.0	75-126 79-141 1: 11/19/05 75-126	3.31	20				

208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 9 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

RPD %REC Spike Source %REC Result Limits RPD Limit Flag Result PQL Units Level Analyte(s)

Batch AK52114 - VOAs in Water GCMS

Matrix Spike (AK52114-MS1)

Source: A511362-01

Prepared: 11/18/05 Analyzed: 11/19/05

Surrogate: Toluene-d8

27.9

25.0

112 79-141



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 10 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52119 - VOAs in Water	GCMS									
Blank (AK52119-BLK1)				Prepared	& Analyzo	d: 11/18/	05			
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	**							
Ethylbenzene	ND	0.50	н							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	11							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	÷r							
Tert-amyl methyl ether	ND	0.50	"							
Tert-butyl alcohol	ND	10	н							
1,2-Dichloroethane	ND	0.50	#1							
Chlorobenzene	ND	0.50	n							
1,3-Dichlorobenzene	ND	0.50	H							
1,4-Dichlorobenzene	ND	0.50	er							
1,2-Dichlorobenzene	ND	0.50	17							
1,2-Dibromoethane (EDB)	ND	0.50	u							
Surrogate: Bromofluorobenzene	23.4		н	25.0	-	93.6	78-138			
Surrogate: Dibromofluoromethane	27.5		u	25.0		110	71-136			
Surrogate: Toluene-d8	27.5		•	25.0		110	88-139			
LCS (AK52119-BS1)				Prepared	& Analyz	ed: 11/18/	05			
Benzene	5.46	0.30	ug/l	5.00		109	68-129			
Toluene	5.32	0.30	11	5.00		106	76-137			
Ethylbenzene	5.19	0.50	19	5.00		104	78-136			
Xylenes (total)	16.1	0.50	н	15.0		107	76-134			
Methyl tert-butyl ether	4.55	0.50	19	5.00		91.0	64-141			
Di-isopropyl ether	5.63	0.50	11	5.07		111	80-132			
Ethyl tert-butyl ether	5.80	0.50	ŧi.	5.08		114	66-138			



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 11 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59

Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code

Client PO/Reference

A511362

11/11/2005 13:00

**EBA** 

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag	
Batch AK52119 - VOAs in Water	GCMS										
LCS (AK52119-BS1)		Prepared & Analyzed: 11/18/05									
Tert-amyl methyl ether	5.31	0.50	**	5.16		103	58-142				
Tert-butyl alcohol	110	10	10	98.2		112	70-139				
1,2-Dichloroethane	5.30	0.50	н	5.00		106	65-125				
Chlorobenzene	5.01	0.50	Ħ	5.00		100	75-127				
1,3-Dichlorobenzene	5.04	0.50	**	5.00		101	78-129				
1,4-Dichlorobenzene	5.26	0.50	н	5.00		105	82-124				
1,2-Dichlorobenzene	5.28	0.50	н	5.00		106	81-125				
1,2-Dibromoethane (EDB)	5.24	0.50	77	5.00		105	80-130	_			
Surrogate: Bromofluorobenzene	29.0		н	25.0	_	116	78-138				
Surrogate: Dibromofluoromethane	26.5		"	25.0		106	71-136				
Surrogate: Toluene-d8	28.2		n	25.0		113	88-139				
LCS Dup (AK52119-BSD1)				Prepared	& Analyz	ed: 11/18/	05				
Benzene	4.94	0.30	ug/l	5.00		98.8	68-129	10.0	25		
Toluene	5.10	0.30	11	5.00		102	76-137	4.22	25		
Ethylbenzene	4.85	0.50	н	5.00		97.0	78-136	6.77	25		
Xylenes (total)	15.2	0.50	**	15.0		101	76-134	5.75	25		
Methyl tert-butyl ether	5.08	0.50	38	5.00		102	64-141	11.0	25		
Di-isopropyl ether	5.45	0.50	0	5.07		107	80-132	3.25	25		
Ethyl tert-butyl ether	5.47	0.50	ti	5.08		108	66-138	5.86	25		
Tert-amyl methyl ether	5.36	0.50	11	5.16		104	58-142	0.937	25		
Tert-butyl alcohol	125	10	"	98.2		127	70-139	12.8	25		
1,2-Dichloroethane	5.12	0.50	н	5.00		102	65-125	3.45	25		
Chlorobenzene	4.89	0.50	я	5.00		97.8	75-127	2.42	25		
1,3-Dichlorobenzene	4.81	0.50	n	5.00		96.2	78-129	4.67	25		
1,4-Dichlorobenzene	5.02	0.50	н	5.00		100	82-124	4.67	25		
1,2-Dichlorobenzene	5.13	0.50	•	5.00		103	81-125	2.88	25		



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

#### CHEMICAL EXAMINATION REPORT

Page 12 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59 Project No: 02-944

Project ID: 74 Benson Lane

Order Number

Receipt Date/Time

Client Code **EBA** 

Client PO/Reference

A511362

11/11/2005 13:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK52119 - VOAs in Water	GCMS									
LCS Dup (AK52119-BSD1)				Prepared	& Analyze	ed: 11/18/				
1,2-Dibromoethane (EDB)	5.25	0.50	H	5.00		105	80-130	0.191	25	
Surrogate: Bromofluorobenzene	28.7		**	25.0		115	78-138			
Surrogate: Dibromofluoromethane	25.5		Ħ	25.0		102	71-136			
Surrogate: Toluene-d8	27.7		н	25.0		III	88-139			
Matrix Spike (AK52119-MS1)	Source: A511362-01			Prepared	& Analyz	ed: 11/18/	05	<u>-</u>		
Benzene	5.47	0.30	ug/l	5.00	ND	109	39-142			
Toluene	5.61	0.30	"	5.00	ND	112	44-148			
Ethylbenzene	5.49	0.50	U	5.00	ND	110	42-148			
Xylenes (total)	16.9	0.50	н	15.0	ND	113	43-145			
Methyl tert-butyl ether	3.76	0.50	n	5.00	ND	75.2	29-161			
Di-isopropyl ether	5.62	0.50	Ħ	5.07	ND	111	42-156			
Ethyl tert-butyl ether	5.67	0.50	n	5.08	ND	112	42-151			
Tert-amyl methyl ether	5.18	0.50	Ħ	5.16	ND	100	38-148			
Tert-butyl alcohol	49.5	10	U	98.2	ND	50.4	42-171			
1,2-Dichloroethane	5.24	0.50	#	5.00	ND	105	36-136			
Chlorobenzene	5.30	0.50	U	5.00	ND	106	41-140			
1.3-Dichlorobenzene	5.24	0.50	H	5.00	ND	105	42-139			
1,4-Dichlorobenzene	5.20	0.50	u	5.00	ND	104	41-142			
1,2-Dichlorobenzene	5.35	0.50	**	5.00	ND	107	39-145			
1.2-Dibromoethane (EDB)	5.24	0.50	н	5.00	ND	105	40-147			
Surrogate: Bromofluorobenzene	28.9		n	25.0		116	78-138			
<del>-</del>	26.0		"	25.0		104	71-136			
Surrogate: Dibromofluoromethane	28.9		,,	25.0		116	88-139			
Surrogate: Toluene-d8	20.9			22.0		-				



208 Mason St. Ukiah, California 95482

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

### CHEMICAL EXAMINATION REPORT

Page 13 of 13

EBA Wastechnologies 825 Sonoma Ave., Suite C Santa Rosa, CA 95404 Attn: David Noren

Report Date: 11/23/05 13:59 Project No: 02-944

Project ID: 74 Benson Lane

Order Number A511362 Receipt Date/Time 11/11/2005 13:00 Client Code EBA Client PO/Reference

**Notes and Definitions** 

R-06 The Reporting Limits for this analysis have been raised to account for matrix interference.

D-07 Analysis of this sample indicates the presence of hydrocarbons lower in molecular weight than diesel.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference
PQL Practical Quantitation Limit

## **Work Order Chain of Custody Record**

Alpha Analytical Laboratories Inc.

208 Mason Street, Ukiah, California 95482 e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267 Lab No. A511362

Company Name:		Project Na		_		ct Number:			Signature below authorizes work under terms stated on reverse side.				
EBA Engineering		150v	wan (n		٧- کرد	144	_				Analysis Request	TAT	
EBA Engineering  Mailing Address:  ELS Senoma A	120	Project Ad	ddress:	グラ	Ln							24 hr (***)	
Project Contact (Hardcopy or PDF to):		P.O. #	<del></del>	Quo	ote #		]					48 hr	
Phone/Fax: 54-0784		Bill to:				<del>- ,</del>			,	7 0 0		Approval Required 1 wk en	
Samplers Signature:	Samp	ling	Container	Prese	rvative	Matrix		P-H	N-tBE RIEX			ال ا	
Sample Designation	Date	Time	40ml VO Poly Amber Sleeve	HCL HNO3	H2SO4 None	Water	Tal-	HALL	ZIN	2 6		(standard)	
DW	11-10-05	i000	6	4	J								
Mw-1		H50						Ш				2	
Mw-2		35			+		$\bot$	Ш	111	$\perp \downarrow \downarrow$		3	
iv/Hi-3		1110		1-11	_ _		11			$\bot \!\!\! \bot$		9	
Mw-4	1	1410			<del>- - - </del> ;		$+\!\!+$	$ \cdot $		$\bot$	<del>                                     </del>	5	
Mw-6	4	H30	<b>V</b>	<b>V</b>		$ \Psi $	14	1	4 1	1 4	<del>                                     </del>	4	
		····	<del>- - - - - - - - - - - - - - - - - - - </del>	$\dashv$		<del></del>	╁—				<del>                                     </del>	Company of the Compan	
	<del></del>						╀			-	<del>                                     </del>		
				+					<del></del>	+			
Relinquished by:	>	Received t	Mari	<u> </u>			Date	10	Tin 9'.	15-	California EDF Report? Sampling Company Log Code:  Yes		
Relinquished by:		Rechived t	ovi S	√ ^\ ~	1		Date	- 1	Tin	ie.	Global ID: 106091344	41	
Relinguished by:		Received f	for Laboratory by.	Lac		) / ///	Date		/ <u>3.'0</u> Tin		EDF to (Email Address):		
							<del></del>				Drinking Water State System/Source Number	<u>r:</u>	
Sample Condition on Receipt: 5-2	Travel and	l Site Time	: Mileage:	Misc. St	applies:					eļsē Vert			